



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **05049101 A**(43) Date of publication of application: **26.02.93**

(51) Int. Cl.

B60L 3/06
B60K 17/04
B60L 7/20
B60L 11/14
B60R 16/02

(21) Application number: **03195349**(22) Date of filing: **05.08.91**(71) Applicant: **HINO MOTORS LTD**

(72) Inventor: **SUZUKI TAKAYUKI**
KOIKE TETSUO
OBATA ATSUMI
KOTO TAKASHI

(54) POWER SUPPLY PROTECTIVE CIRCUIT FOR VEHICLE**(57) Abstract:**

PURPOSE: To prevent deadlock at the time of starting/traveling by connecting a first inverter between a battery and an electric rotating machine being driven through an internal-combustion engine and further connecting a second inverter between the battery and a load and stopping the operation of the second inverter when the battery voltage drops below a predetermined level.

CONSTITUTION: An AC three-phase electric rotating machine 3 being driven through an internal-combustion engine is connected with a battery 8 through a first inverter circuit 61, an electric brake circuit 64, a smoothing capacitor 63 and a chopper circuit 62. Furthermore, the battery 8 is connected through a controller 20 with a second chopper circuit 91, a smoothing capacitor 92 and a second inverter circuit 93 in order to drive a three-phase motor 15. When a voltmeter built in the controller 20 detects the terminal voltage of the battery 8 lower than a predetermined level, a signal is delivered in order to stop the operation of the second chopper circuit 91 and the second inverter circuit 93. Consequently, the battery 8

is protected against overdischarge resulting in prevention of deadlock at the time of starting/traveling.

COPYRIGHT: (C)1993,JPO&Japio

